



Heat-Related Mortality in the Urban Northeast

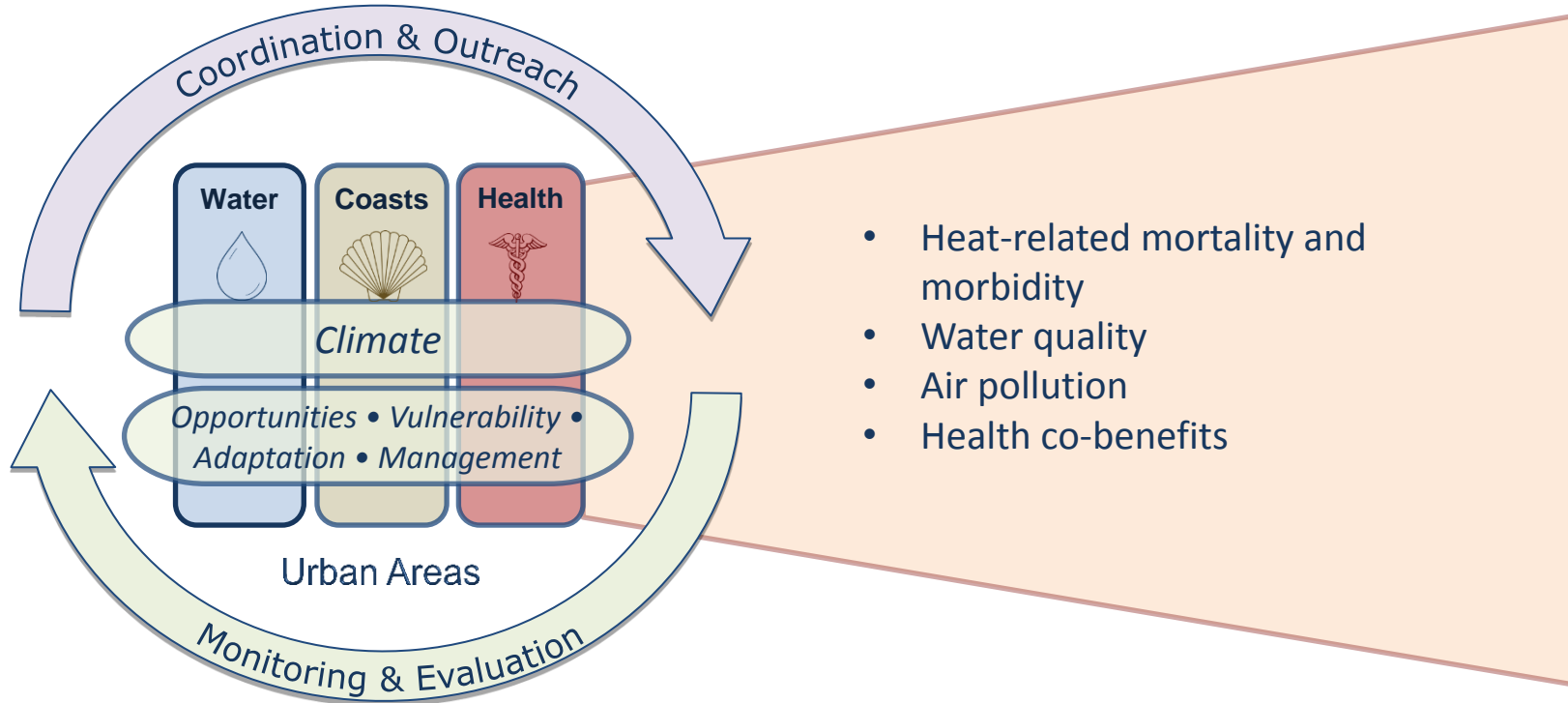
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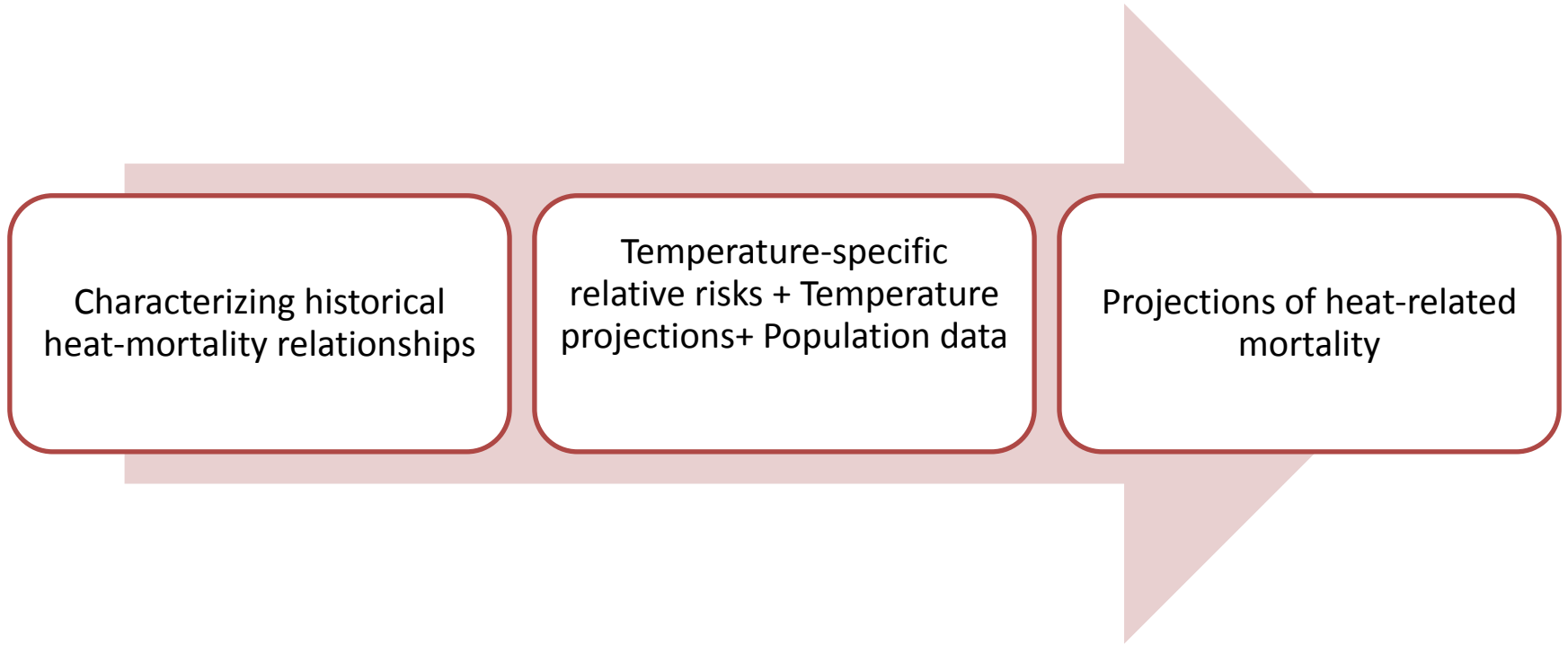
National Center for Disaster Preparedness | Earth Institute, Columbia University



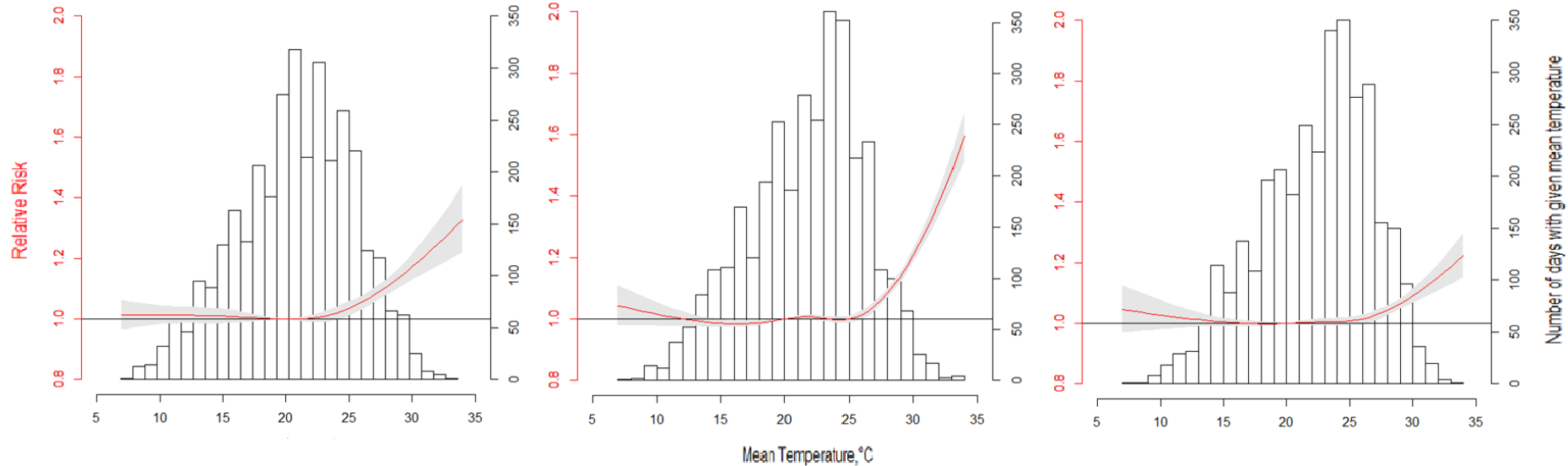
CCRUN Health



Projecting heat-related mortality



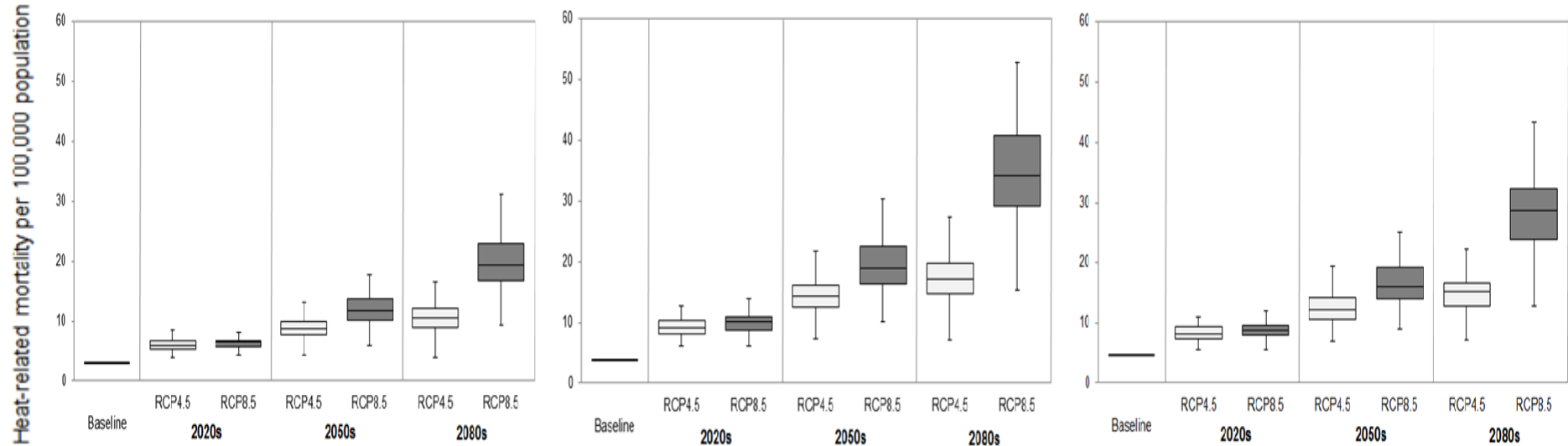
Heat-mortality relationships by city



Temperature – mortality curves of overall cumulative relative risk and mean summer temperature histograms for **(a)** Boston **(b)** New York City and **(c)** Philadelphia.

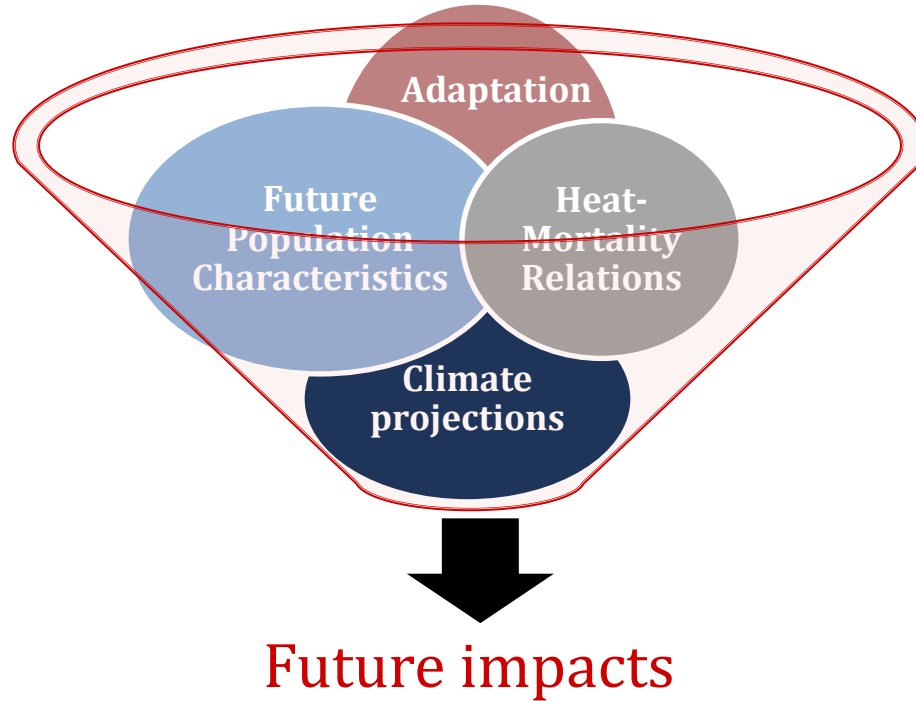
Petkova, Elisaveta P., et al. "Projected heat-related mortality in the US urban northeast." *International journal of environmental research and public health* 10.12 (2013): 6734-6747.

Baseline and projected heat-related mortality rates by city



Projected annual heat-related mortality rates during the 2020s, 2050s and 2080s for **(a)** Boston **(b)** New York City and **(c)** Philadelphia, during the baseline period (1985-2006) and according to the 33 global climate models (GCMs) and two Representative Concentration Pathways (RCPs), RCP4.5 and RCP8.5.

Towards more comprehensive projections



Future Directions

- Heat-related morbidity
- Spatial differences
- Vulnerable populations
- Projecting the impacts of heat waves

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THANK YOU!

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